

Amendments to the claims

This listing of claims will replace all prior versions and listings of claims in the application.

1 (currently amended): An isolated antimicrobial peptide, named myticin, from a bivalve mollusk, having a calculated molecular weight of approximately 4.5 kDa; a pI of approximately 8.7; and 8 cysteine residues; wherein said peptide further comprises the following sequence:
HX₁HX₂CTSYX₃CX₄KFCGTAX₅CTX₆YX₇CRX₈LHX₉GKX₁₀CX₁₁CX₁₂HCSR
in which: X₁ = P or S, X₂ = V or A, X₃ = Y or W, X₄ = S or G, X₅ = S or G, X₆ = R or H, X₇ = G or L, X₈ = N or V, X₉ = R or P, X₁₀ = L or M, X₁₁ = F or A, and X₁₂ = L or V (SEQ ID NO: 5).

2 (cancelled)

3 (previously presented): The peptide of claim 1, chosen from the group consisting of:

- a peptide comprising the following sequence (Ia):

HSHACTSYWCGKFCGTASCTHYLCRVLHPGKMCACVHCSR (Ia) (SEQ ID NO: 6)

- a peptide comprising the following sequence (Ib):

HPHVCTSYYCSKFCGTAGCTRYGCRNLHRGKLCFCLHCSR (Ib) (SEQ ID NO: 7).

4 –18 (cancelled)

19 (previously presented): An isolated peptide comprising the amino acid sequence of SEQ ID NO: 6.